

FIG. 1  
PRIOR ART



魚器作成の図（扶桑市立博物館蔵）  
（早稲大学附属図書館蔵）

FIG. 2  
PRIOR ART

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**REPORT  
on the  
SCIENTIFIC RESULTS  
of the  
EXPLORING VOYAGE  
of  
H.M.S. CHALLENGER  
1873-76**

**NOTES ON METHODS FOR THE NARCOTIZATION, KILLING,  
FIXATION, AND PRESERVATION OF MARINE ORGANISMS**

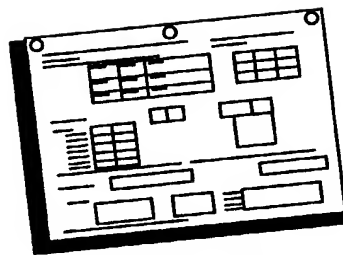
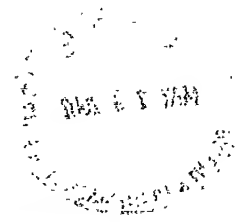
Compiled by Henry D. Russel  
April 1963

Systematics-Ecology Program  
Marine Biological Laboratory, Woods Hole, Mass.

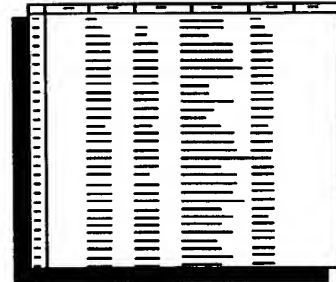
QL  
62  
R94  
C1

**FIG. 3**  
PRIOR ART

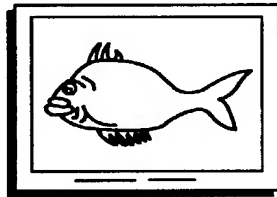
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SPECIMEN DATA



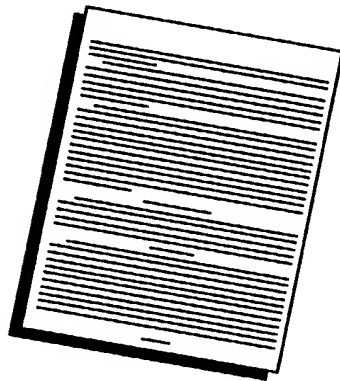
TABLES



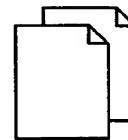
PHOTOS



BINARY OBJECTS



MANUSCRIPT



DOCUMENTS

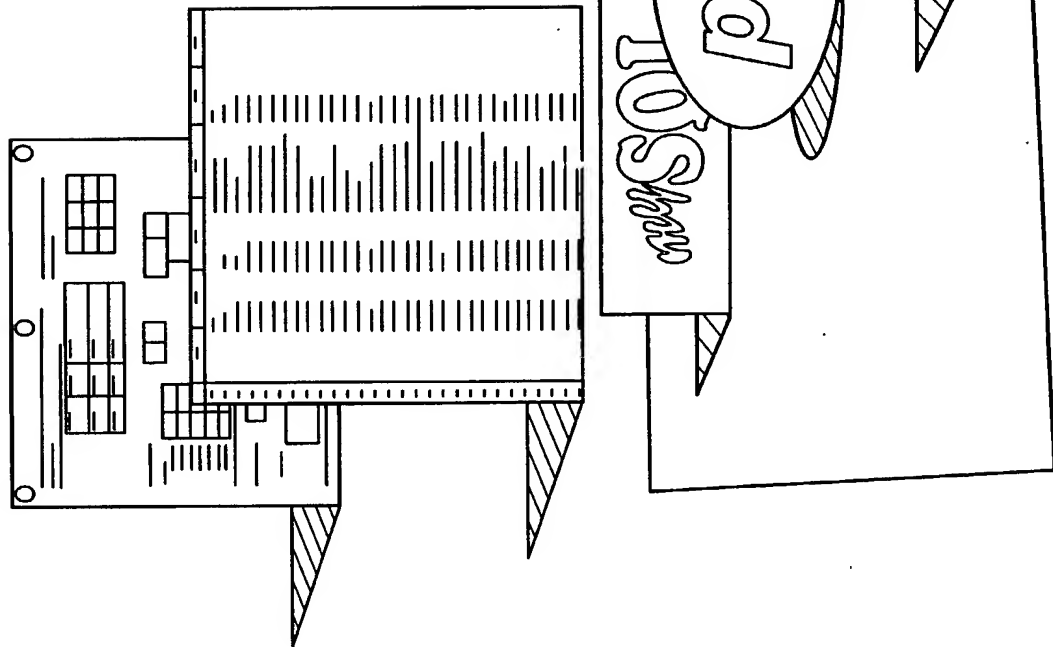
FIG. 4  
PRIOR ART

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FIG. 5

PRIOR ART

U.S. PAT. 6,544,444



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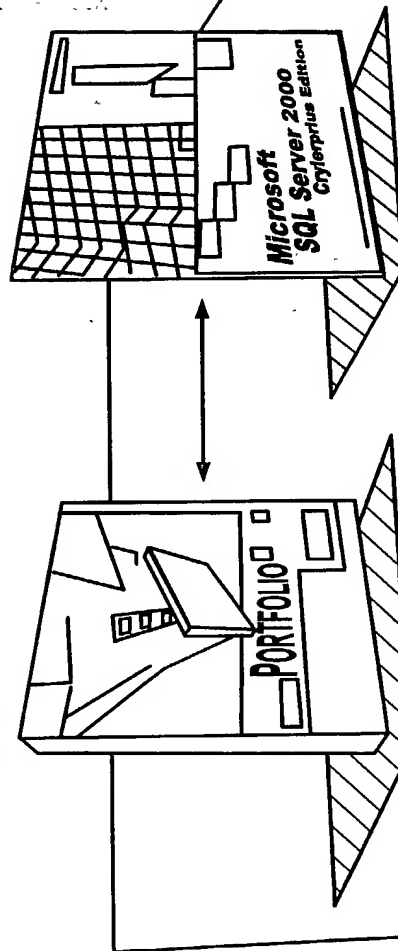
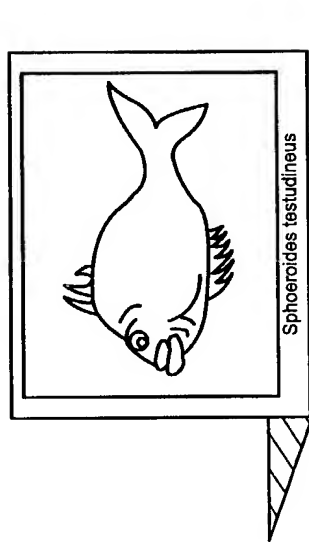
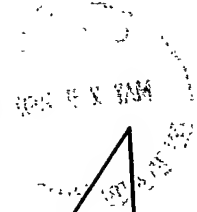


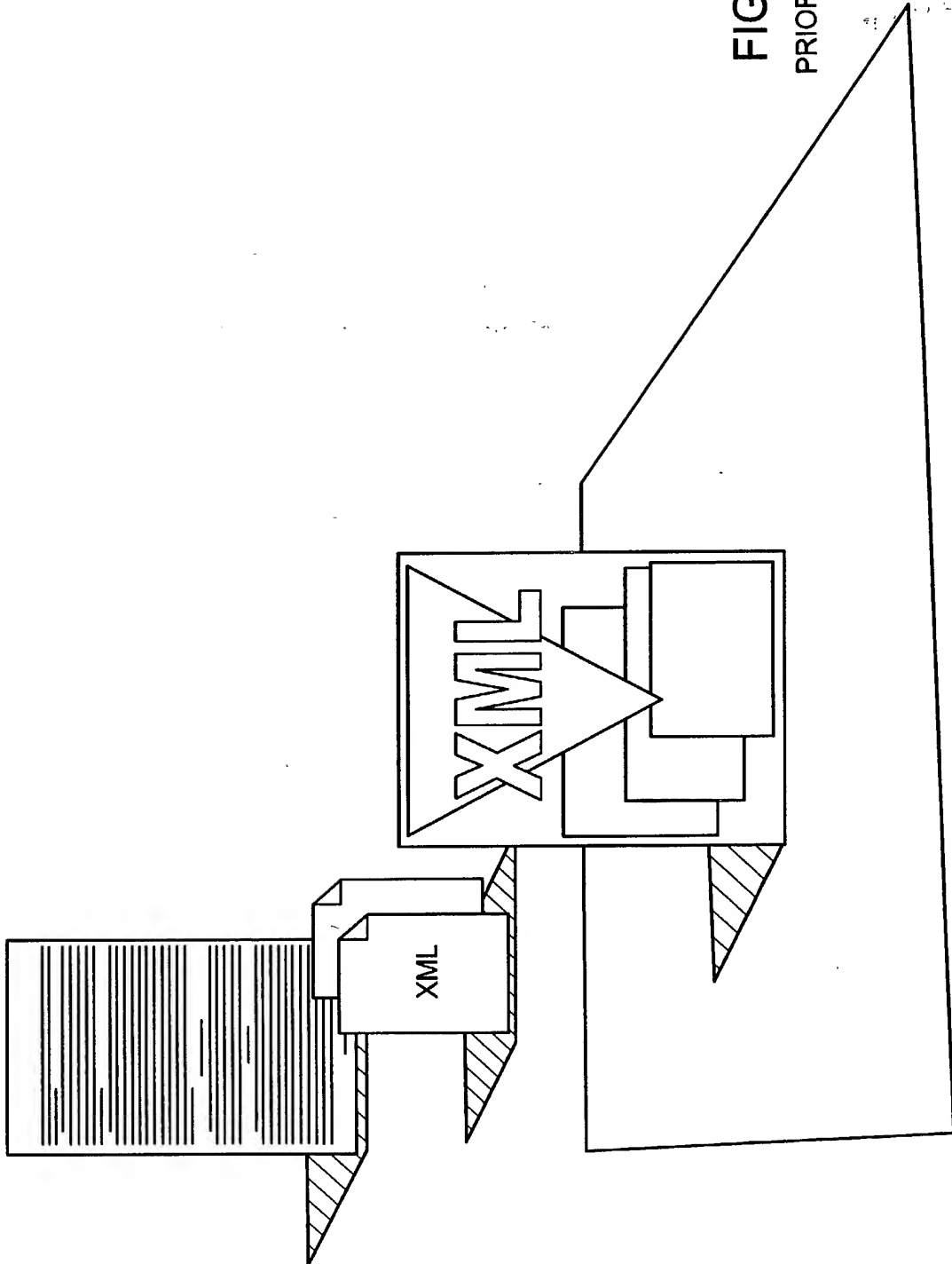
FIG. 6  
PRIOR ART



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FIG. 7

PRIOR ART



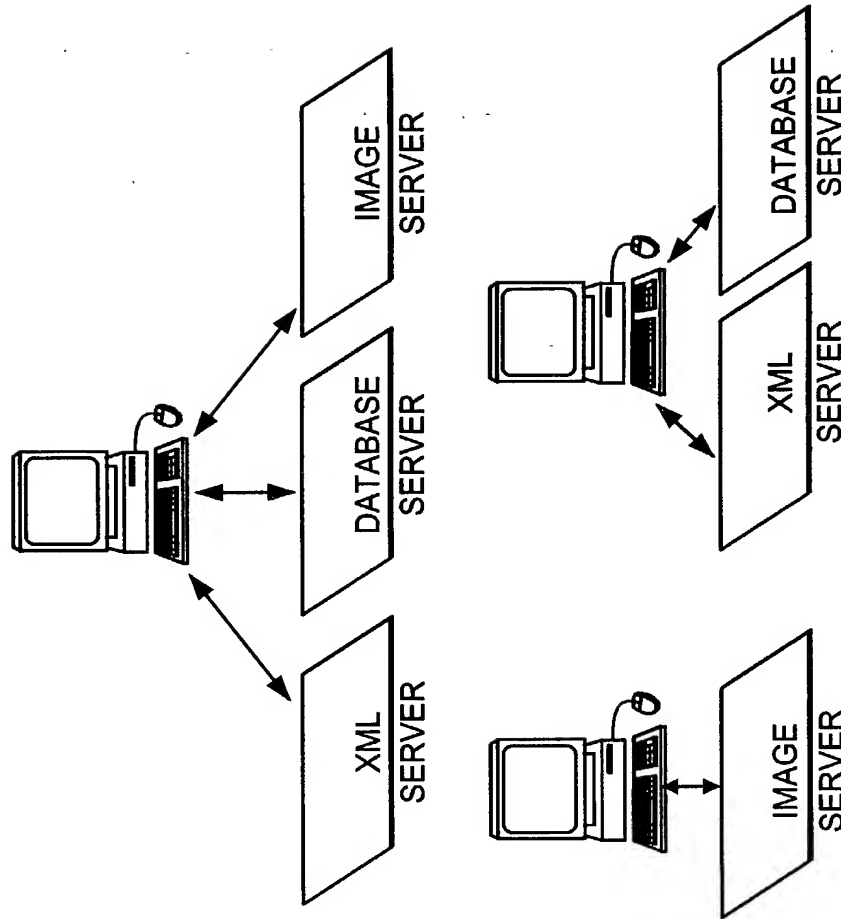
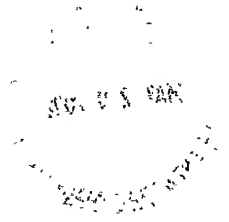
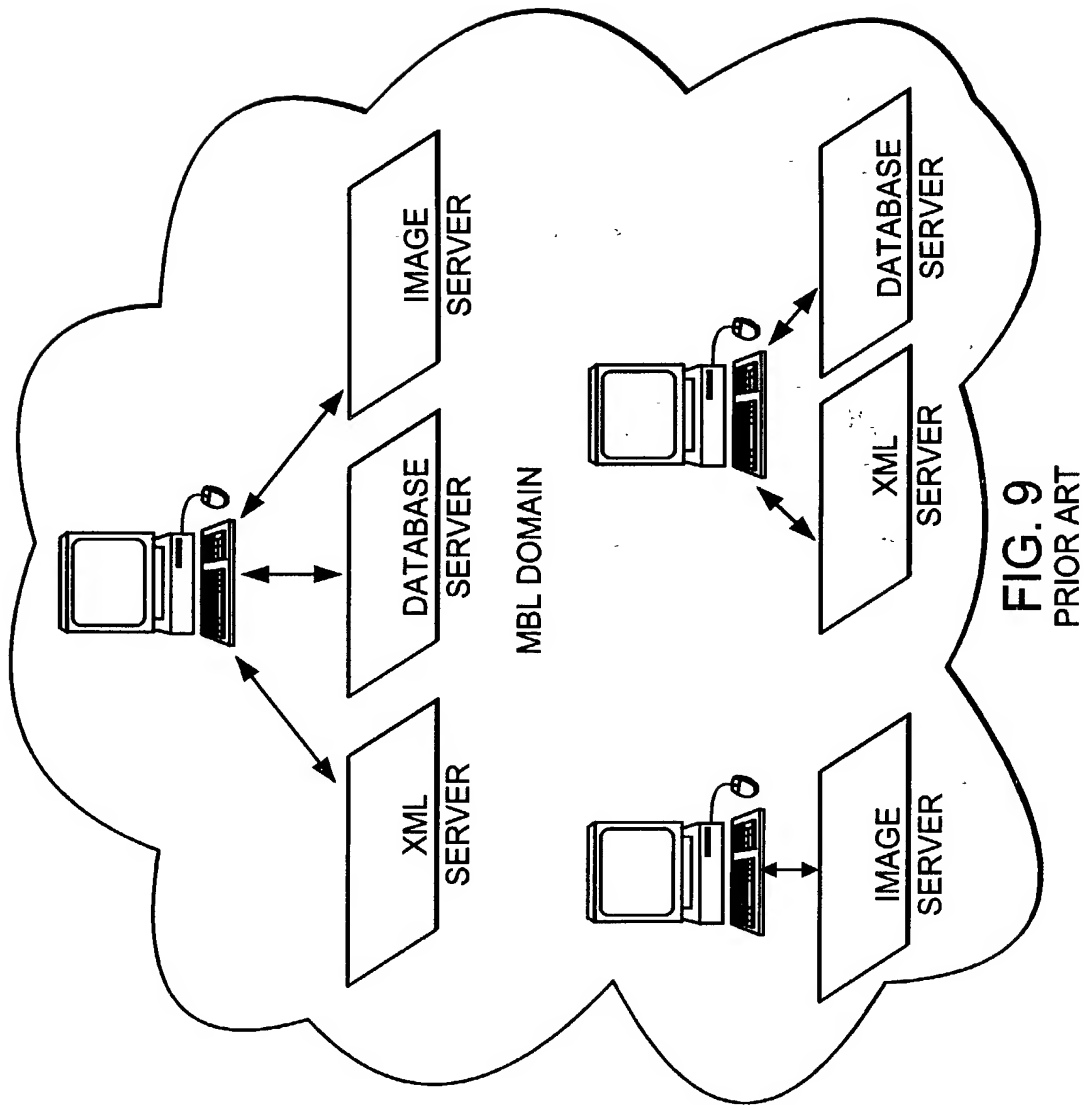


FIG. 8  
PRIOR ART





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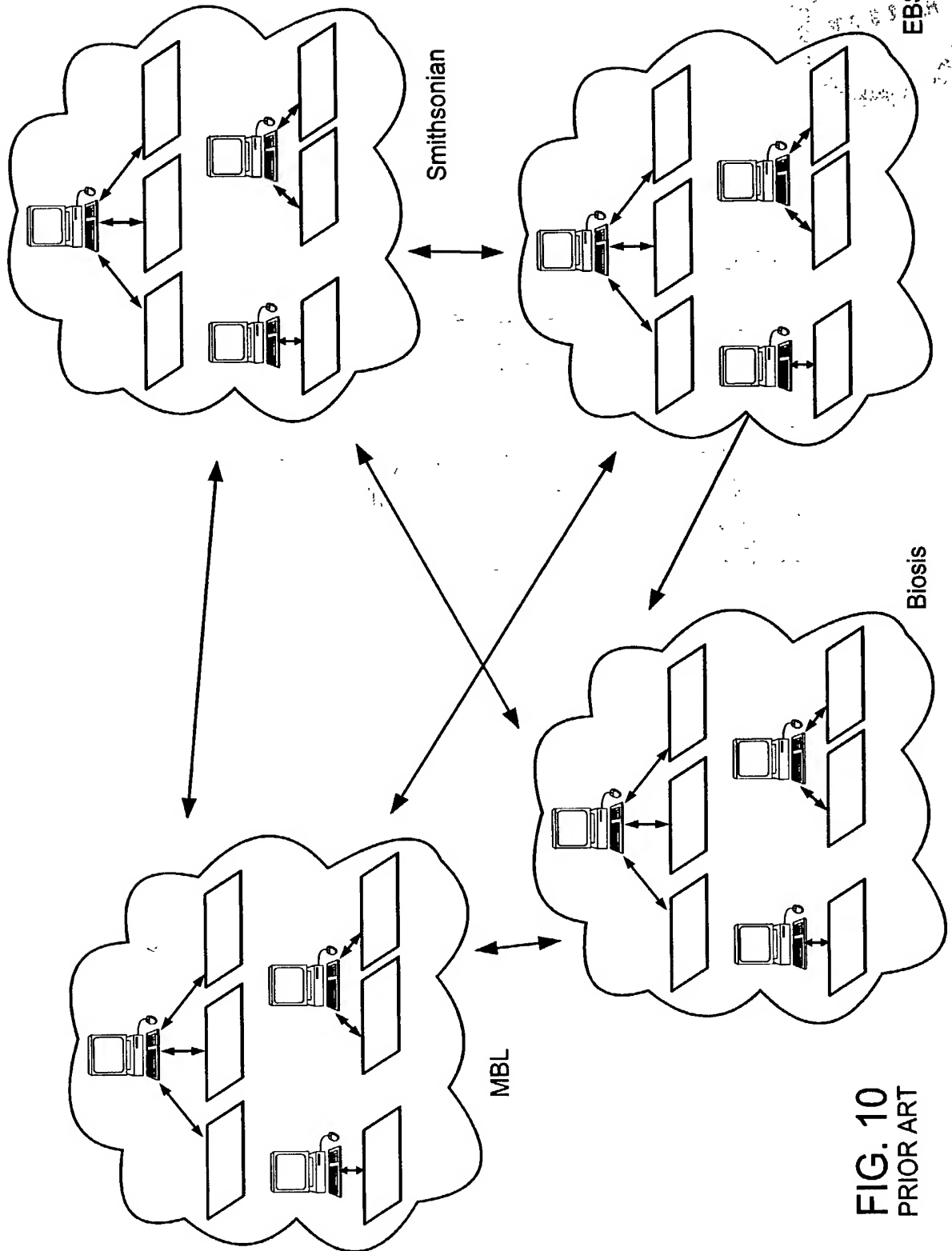


FIG. 10  
PRIOR ART

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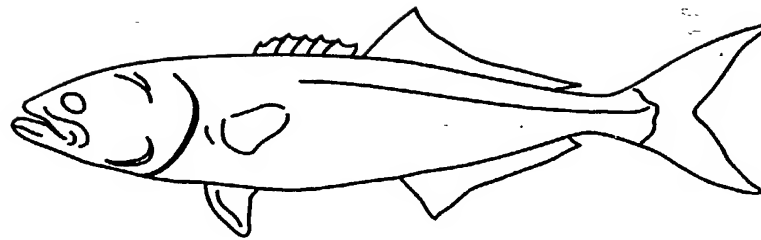
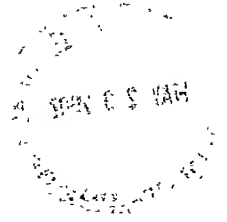
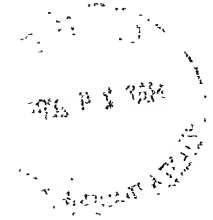


FIG. 11



Patterson  
 . Organisms  
 ... Eukaryote  
 .... Opisthokonts  
 ..... Choanoflagellates And Animals  
 ..... Metazoa  
 ..... Chordata  
 ..... Vertebrata  
 ..... Gnathostomata  
 ..... Osteichthyes  
 ..... Actinopterygii  
 ..... Perciformes  
 ..... Pomatomidae  
 ..... Pomatomus  
 ..... Pomatomus saltator

Margulis  
 Animalia  
 .Chordata  
 ..Craniata  
 ... Gnathostomata  
 .... Osteichthyes  
 ..... Actinopterygii  
 ..... Perciformes  
 ..... Pomatomidae  
 ..... Pomatomus  
 ..... Pomatomus saltator

FIG. 12

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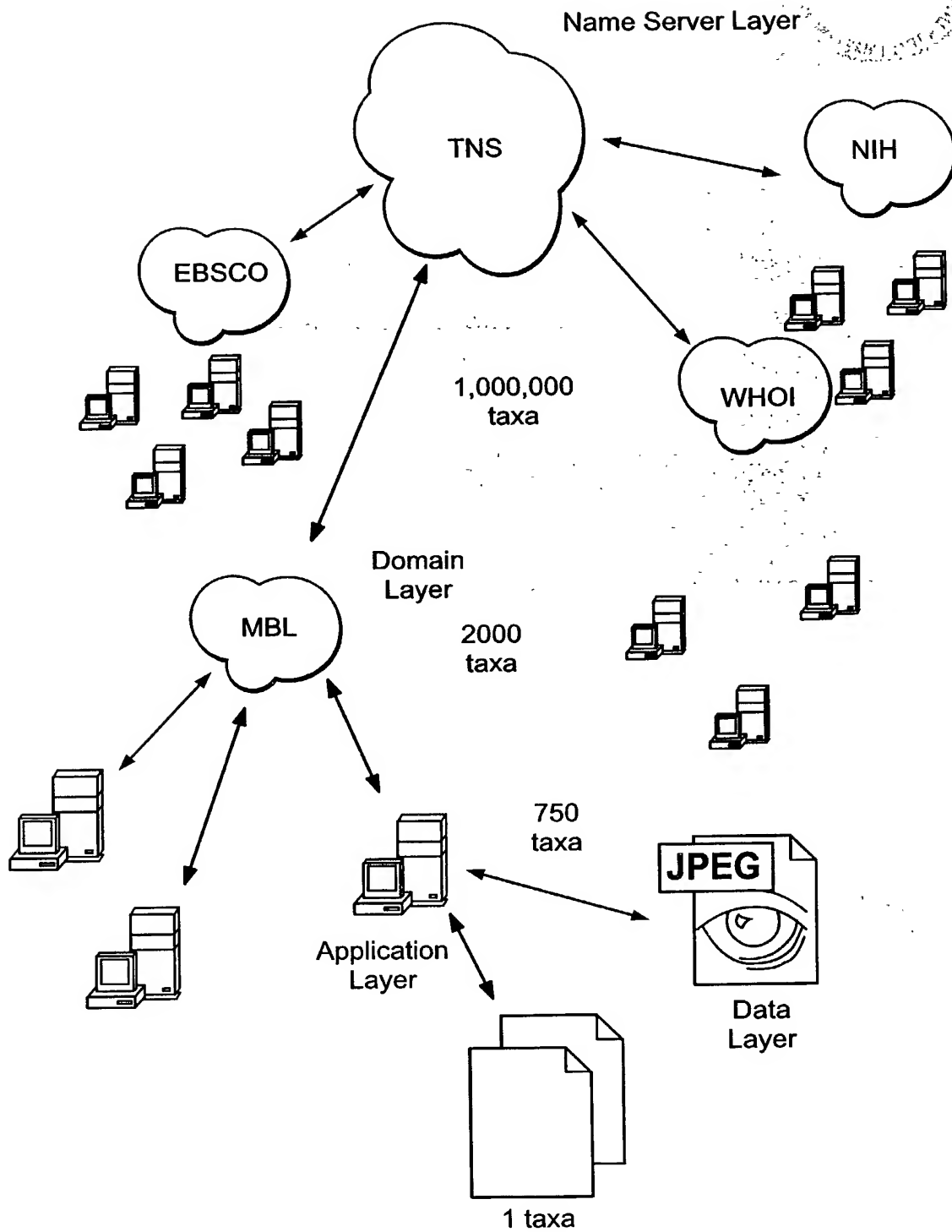


FIG. 13

FIG. 14

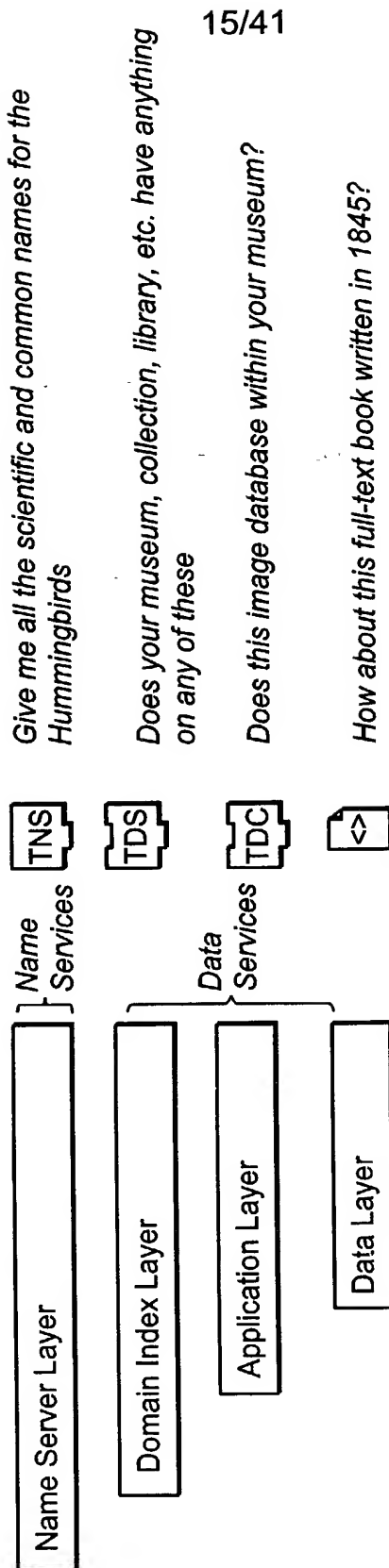
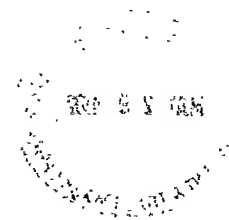


FIG. 15



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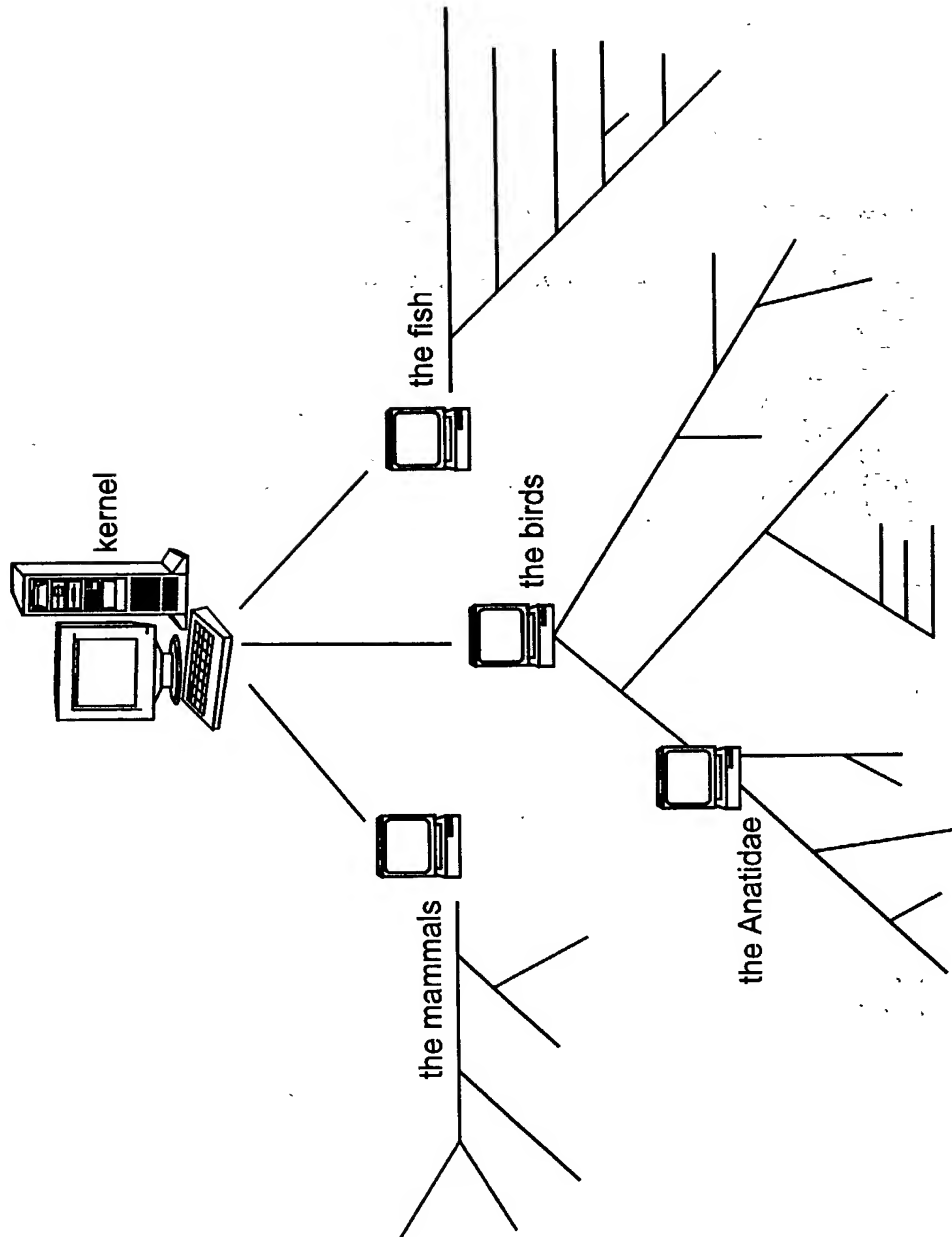
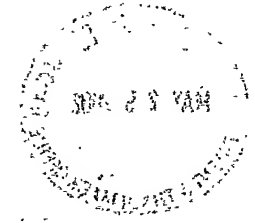


FIG. 17

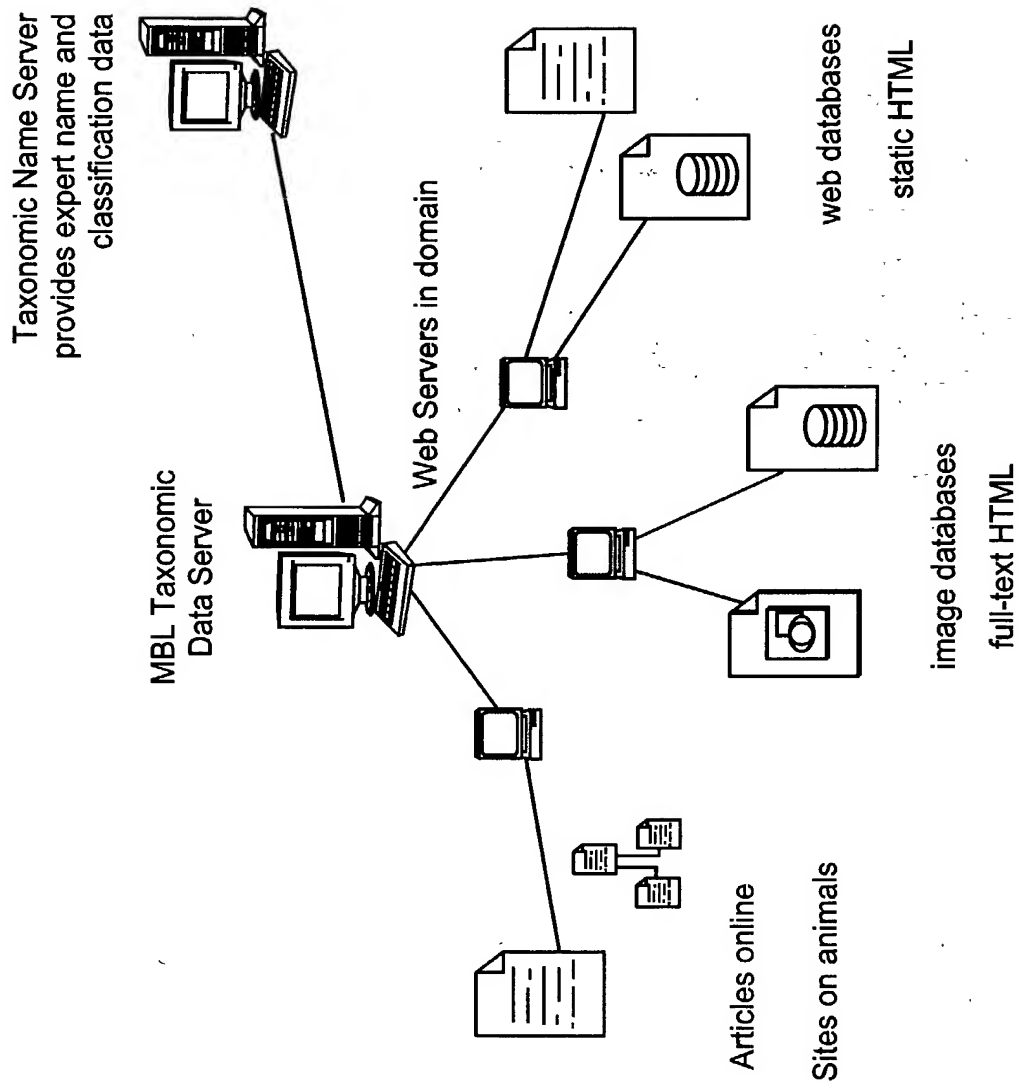
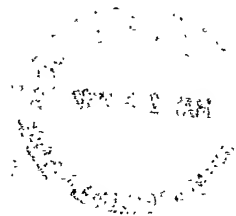
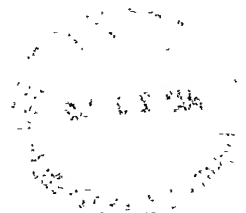


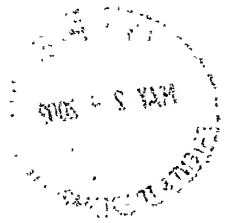
FIG. 18




Function name	What it does
<code>classifications();</code>	returns the canonical list of classifications from the name server
<code>me(\$myID,\$d,\$type,\$l)</code>	returns the name of entity myID according to the type attribute provided
<code>name_types(\$d);</code>	returns a \$d delimited array of name types such as "English,French,ICZN-Current, Synonym, Misspelling, etc.
<code>chroot(\$myID,\$classification)</code>	sets the name server root of the application to \$myID. Sets parent of myID to zero. Allows developers of taxa specific applications to only use relevant parts of the classification
<code>names(\$myID,\$d,\$order,\$l)</code>	returns an ary delimited by string, \$d
<code>children(\$myID,\$d,\$classification,\$type,\$order,\$l)</code>	returns an array of the children on \$myID according to the classification \$classification. Other options include the name type to return, sort order, etc.
<code>parent(\$myID,\$d,\$classification,\$type,\$order,\$l)</code>	Ancestry of \$myID with many output options
<code>list_my_children(\$myID)</code>	A recursive function for dumping tree information.
<code>get_name(\$myID,\$name_type,\$date,ref)</code>	Return a specific name for a taxa such as the French form or the currently accepted name or a junior synonym.
<code>classify(\$myID,\$classification,\$length)</code>	Returns an array of ancestry for a given classification to a given number of steps relative to the taxa. A length of 0 returns to the tree root.
<code>names(\$myID,\$fields)</code>	Returns an array of all names for a given taxonomic entity. Fields returned in the array can be specified.
<code>dump(\$myID,\$delimiter,\$fields,\$classification)</code>	Dumps from myID down in spreadsheet form
<code>pad(\$myID,\$s,\$class,\$root) -</code>	Delimiters used to pad the taxonomic level type. Ex (pad (AR201,"=-","1C",5) outputs "=-=-=-=-=-" because according to classification "1C" this entity (a genus) would be indented six places to correspond to the six levels from the starting point of level "5" (corresponding to "Phylum") from the root of classification 1C.


FIG. 19

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## MARINE BIOLOGICAL LABORATORY



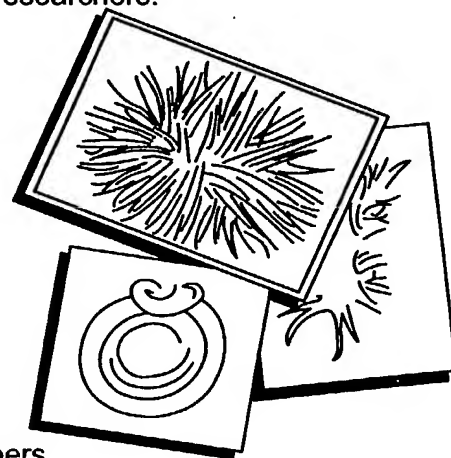
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### Marine Animals at the MBL


- .... ▾ **Metazoa ->>**
- ..... ▾ Annelida Segmented Worms
- ..... ▾ Arthropoda Joint-legged animals
- ..... ▾ Bryozoa Moss Animals
- ..... ▾ Chaetognatha Arrow Worms
- ..... ▾ Chordata Vertebrates and allies
- ..... ▾ Cnidaria Coelenterates
- ..... ▾ Ctenophora Comb Jellies
- ..... ▾ Echinodermata Spiny-skinned Animals
- ..... ▾ Hemichordata Acorn Worms
- ..... ▾ Mollusca Mollusks
- ..... ▾ Nemertea Ribbon Worms
- ..... ▾ Platyhelminthes Flatworms
- ..... ▾ Porifera Sponges
- ..... ▾ Sipuncula Peanut Worms

This database represents approximately 200 species of marine organisms available in our Marine Resources Center and collected by the Aquatic Resources Division. Most of these organisms are available for purchase by qualified educational institutions and researchers.



Expand from Metazoa down. (560 taxa)

This program uses the Taxonomic Name Server for name authority information.

Server numbers

Click on grouping at left for a listing of species

FIG. 20



100-443886-100

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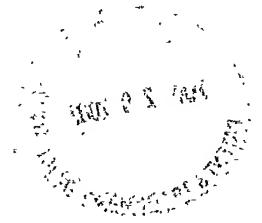
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reeding  
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growth

June, whereas the contain only smaller  
eggs after the early part of July, No  
individual, however, is actually known to  
have given birth to two broods in a single  
summer.

The sand shark, *Carcharias Littoralis*, the  
most common shark at Woods Hole during  
the summer, so far as I know, has never  
been taken during the breeding season  
all the individuals being apparently imma

FIG. 23

The Bluefish, *Pomatomus saltator*

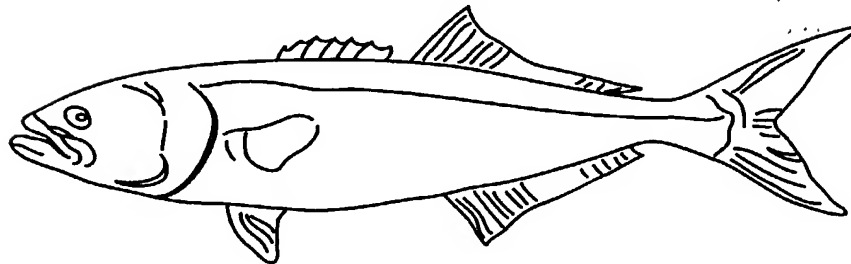


FIG. 24

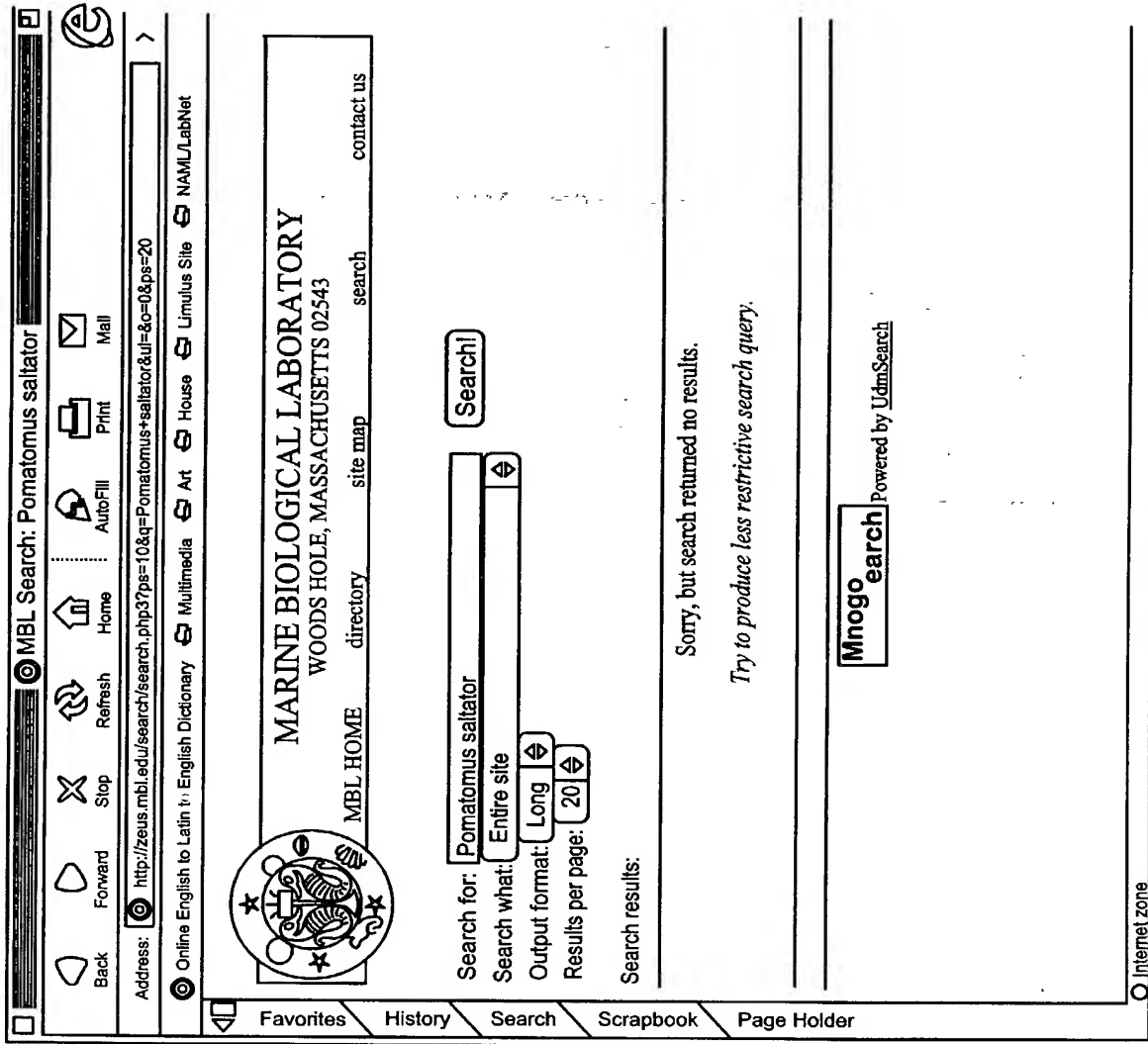
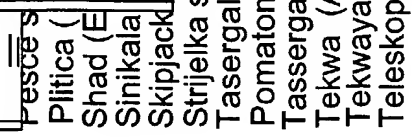


FIG. 25

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Common Names of *Pomatomus saltator*

Common Name

Synonyms of *Pomatomus saltator*

Author

Status

*Pomatomus saltator* (Lumaeus, 1766)

*Gasterosteus saltator* (Lumaeus, 1766)

*Pomatomus saltator* (Lumaeus, 1766)

*Teminadors saltator* (Lumaeus, 1766)

*Pomatomus saltator* (Lumaeus, 1766)

*Ckiesdipterus saltator* (Lumaeus, 1766)

*Ferca lophas* Formold, 1775

*Ckiesdipterus heptocantkins* Lacepede, 1801

*Pomatomus sirub* Lacepede, 1802

*Lapharis metherranensis* Rafinesque, 1810

*Garnierison serna* Rafinesque, 1810

*Scamer rypterus* Pallas, 1814

*Syrtus pallaris* Eschwalds, 1831

*Chromis spierororum* Cinnaw, 1864

*Teminadors coniderus* Caeselhau, 1861

*Sparactodon nahnal* Rochebrune, 1880

*Teminadors tubulus* Saville Kent, 1893

other

Teleskopaborre (Sw)

Pesce S

Plitica (

Shad (E

Sinkala

Skipjack

Strijelka skakus

Tasergal (Poli)

Pomatomus sa

Tassergak (Fr)

Tekwa (Arab)

Tekwaya (Arab)

Teleskopaborre

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Bluefish (E)

Pomatomus saltator (LVN)

Cheilodipterus heptacanthus (Syn)

Cheilodipterus saltatrix (Syn)

Chromis epicurorum (Syn)

Gasterosteus saltatrix (Syn)

Gonenion serra (Syn)

pharis mediterraneus (Syn)

Perca lophar (Syn)

Pomatomus pedica (Syn)

Pomatomus saltatrix (Syn)

omus skib (Syn)

r sypterus (Syn)

don nahnal' (Syn)

us pallasii (Syn)

condens (Syn)

on saltator (Syn)

on tubulus (Syn)

Chopper (E)

Tailor (E)

napper Blue (E)

Amikiri (Jap)

Ach'ked (Arab)

Anchova (Port)

a de banco (Sp)

Anjoiva (Sp)

Blaufisch (Ger)

Blue-fish (E)

havsabbor (Nor)

Elf (E)

Elwe (Afri)

Enchova (Port)

Gófari (Gree)

Lüfer (Turk)

.....SuperClass Pisces  
 .....Class Actinopterygii  
 .....Order Perciformes  
 .....Family Pomatomidae  
 .....Genus Pomatomus  
 .....Binomen Pomatomus saltator




Common Names of *Pomatomus saltator*

Synonyms of <i>Pomatomus saltator</i>			
Synonym	Author	Status	
<i>Pomatomus saltator</i>	(Lumaeus, 1766)	misspelling	
<i>Gasterosieus saltator</i>	(Lumaeus, 1766)	original combination	
<i>Pomatomus saltator</i>	(Lumaeus, 1766)	new combination	
<i>Terminadors saltator</i>	(Lumaeus, 1766)	new combination	
<i>Pomatomus saltator</i>	(Lumaeus, 1766)	new combination	
<i>Ckestadipierics saltator</i>	(Lumaeus, 1766)	new combination	
<i>Ferca lophias</i>	Formold, 1775	junior synonym	
<i>Ckestadipierics heptocaritkins</i>	Lacepede, 1801	junior synonym	
<i>Pomatomus sirub</i>	Lacepede, 1802	junior synonym	
<i>Lapharis mechtarranens</i>	Rafresque, 1810	junior synonym	
<i>Garrifison serna</i>	Rafresque, 1810	junior synonym	
<i>Scaner dypteris</i>	Pallas, 1814	junior synonym	
<i>Sypteris pallaris</i>	Eschwalds, 1831	junior synonym	
<i>Chronimis spiererorum</i>	Grimmaw, 1864	junior synonym	
<i>Terminadors coniderus</i>	Caeselnau, 1861	junior synonym	
<i>Sparactodon nainal</i>	Rochebrune, 1880	junior synonym	
<i>Terminadors tubvulus</i>	Saville Kent, 1893	other	

FIG. 27

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1. Macrofauna description [2]  
 Description of the Macrofauna in Plum Island Sound Macrofauna are abundant and diverse throughout the Plum Island Sound estuary. Twenty eight species of fish have been recorded in the brackish to marine areas and another 10 from the freshwater portion....  
 • <http://ecosystems.mbl.edu/PIE/data/HTL/HTLDescription.htm> (text/html) Wed, 19 Jul 2000 15:11:39 GMT, 3406 bytes
2. No title [2]  
 DATE STATION STATE X STATE Y LAT LON SPECIES TOTAL WEIGHT 23-Sep-1993 HTL-PR-21 247524.8 944832.3 42.75263608 70.91949172 Alosa aestivalis 1 1.2 20-Oct-1993 HYL-PR-21 247524.8 944832.3 42.75263608 70.91949172 Apeltes quadracus 1 0.6 23-Nov-1993 HTL-P...  
 • <http://ecosystems.mbl.edu/PIE/data/HTL/HTL-PR-Survey.txt> (text/html) Wed, 19 Jul 2000 14:53:41 GMT, 174862 bytes
3. No title [2]  
 STATION STATE X STATE Y LAT LON SAL SITE NAME SCI NAME 15N 13C 34S HTL-SO-3(Knob) 257402.95 942546.27 42.73139029 70.79906604 30 MID sand shrimp Crangon septemspinosa 10.5 -16.3 8.6 HTL-SO-5(Sub Headquarters) 256334.1 945265.44 42.75594527 70.81184907...  
 • <http://ecosystems.mbl.edu/PIE/data/HTL/HTL-PR-Isotope.txt> (text/html) Wed, 19 Jul 2000 14:18:16 GMT, 8767 bytes
4. No title [2]  
 Plum Island Ecosystem Long Term Ecological Research (PIE-LTER) LMER Intercomparison Stable Isotope Data Set Updated 2/14/97 Organic matter Real/measured Forward model stable isotope data Budgets stable...  
 • <http://ecosystems.mbl.edu/PIE/data/STP/STP-VA-OMInterisotope.txt> (text/html) Wed, 19 Jul 2000 15:18:07 GMT, 20535 bytes

FIG. 28

MBL Name Server

412 species

14 phyla

1127 names

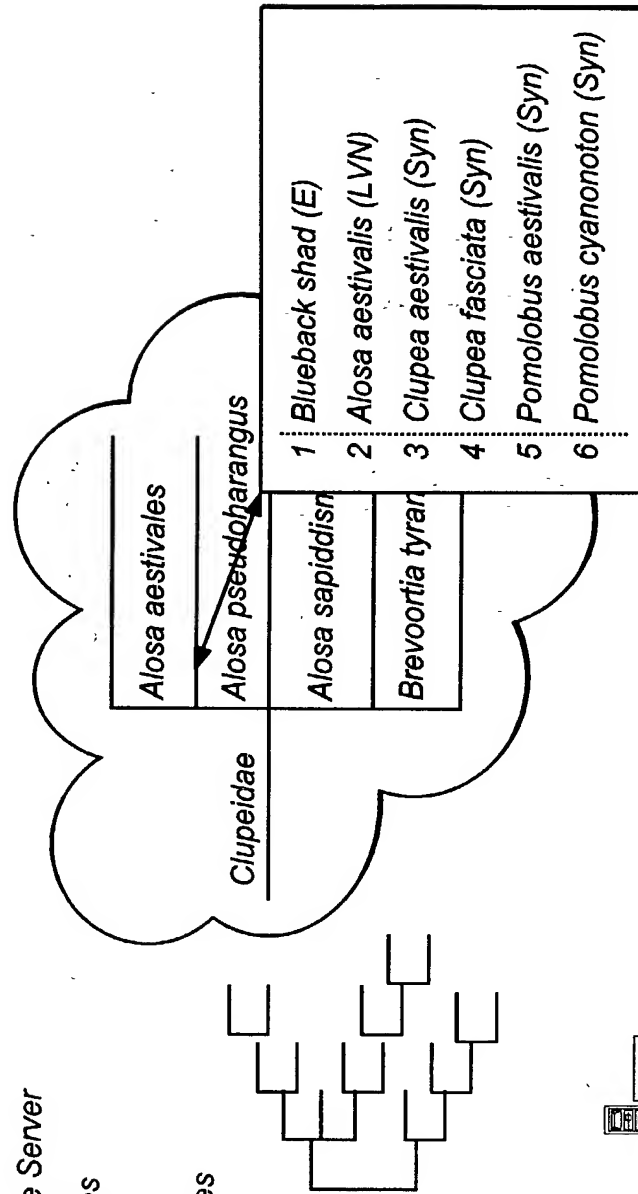


FIG. 29

Classification: ICLARM:FishBase

.....SuperClass **Pisces**  
.....Class **Actinopterygii**  
.....Order **Perciformes**  
.....Family **Pomatomidae**  
.....Genus **Pomatomus**  
.....Binomen **Pomatomus saltator**

Names:

Bluefish (E)  
Pomatomus saltator (L.VN)  
Cheilodipterus heptacanthus (Syn)  
Cheilodipterus saltatrix (Syn)  
Cromis epicurorum (Syn)  
Gasterosteus saltatrix (Syn)  
...

Links: Pomatomus saltator

MBL

Database of Marine Organisms

The Flescher Slides Collection

The Biological Bulletin Citations Database

MRC Catalog of Specimens

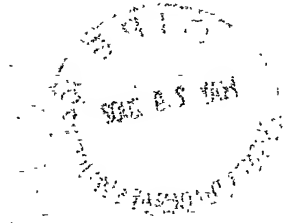
Compendium of Eggs and Embryoes

The Teaching Charts of Rudolph Leuckart

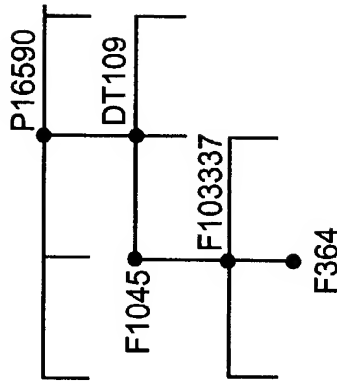
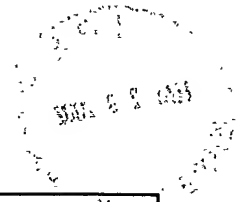
29/41

FIG. 30

10007923 052902



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Classification: C109

myID	name	type
38631	Bluefish	E
59825	Pomatomus saltator	L
73467	Cheilodipterus heptacanthus	Syn
73482	Cheilodipterus saltatrix	Syn
73995	Chromis epicurorum	Syn
81129	Gasterosteus saltatrix	Syn
82464	Gonenion serra	Syn
87746	Lopharis mediterraneus	Syn
94245	Perca Lophar	Syn
96363	Pomatomus pedica	Syn
96364	Pomatomus saltatrix	Syn
96365	Pomatomus skib	Syn
100411		
101901		
103298		
103504		
103506		
103507		
106382		
106383		
106384		
39257		
61228		
77719		
77720		
78438		
41109		

myID	myparentID	Entity Description (use currently accepted latin name)
F7301	F103336	Pomadasys striatus
F7708	F103336	Pomadasys striatus
F17426	F103336	Pomadasys stridens
F27317	F103336	Pomadasys suillus
F27498	F103336	Pomadasys taeniatus
F51125	F103336	Pomadasys trifasciatus
F364	F103337	Pomadasys unimaculatus
F9187	F103338	Pomatomus saltator
F9188	F103338	Pomatomus saltator
F9189	F103338	Pomatomus bathi
F9190	F103338	Pomatomus canestrinii
F9191	F103338	Pomatomus kneri
F1344	F103338	Pomatomus lozanoi
F1345	F103338	Pomatomus marmoratus
F1346	F103338	Pomatomus microps
F1347	F103338	Pomatomus minutus
		Pomatomus norvegicus
		Pomatomus pictus

FIG. 31

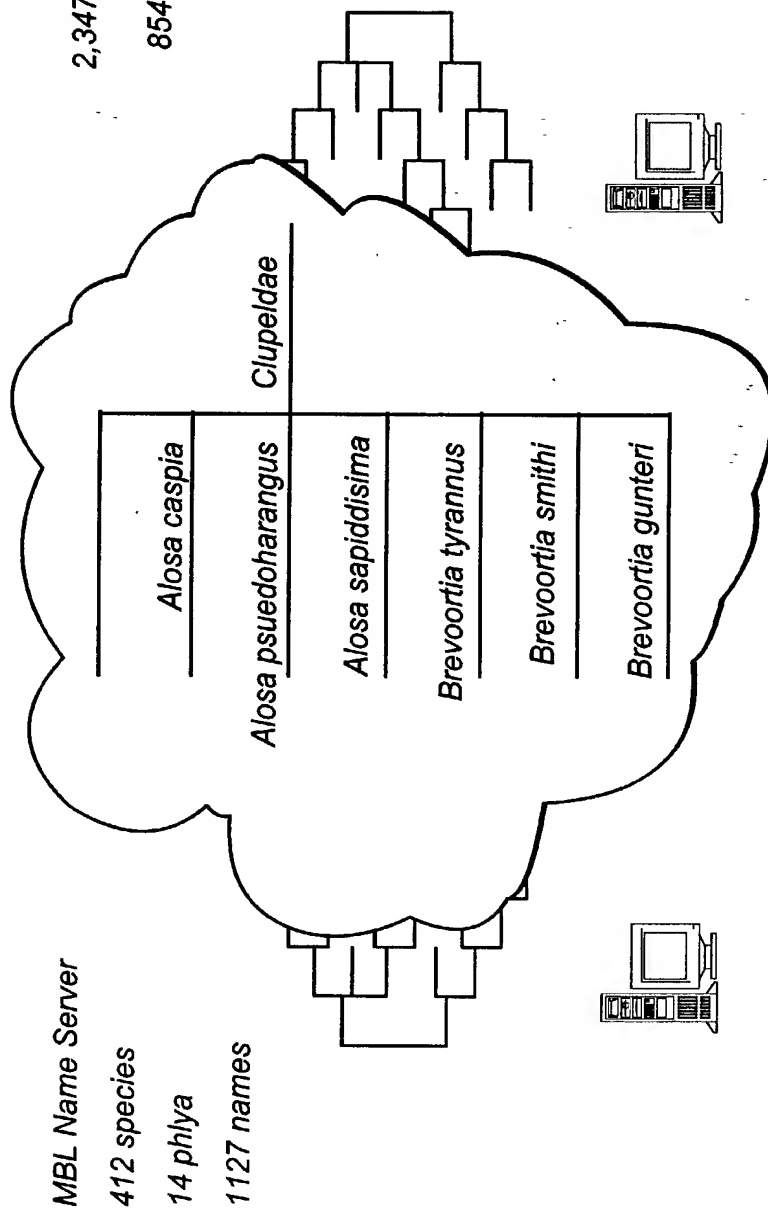


FIG. 32

Classification: ICLARM:FishBase

....SuperClass **Pisces**  
.....Class **Actinopterygii**  
.....Order **Clupeiformes**  
.....Family **Clupeidae**  
.....Genus **Brevoortia**  
.....Binomen **Brevoortia tyrannus**

Names:

Atlantic menhaden (E)  
Brevoortia tyrannus (L)  
Clupea carolinensis (Syn)  
Clupea menhaden (Syn)  
Clupea neglecta (Syn)  
Clupea tyrannus (Syn)

Links: *Brevoortia tyrannus*

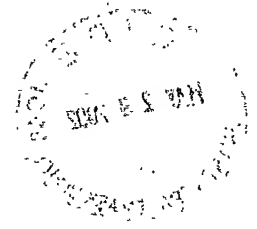
MBL

Database of Marine Organisms  
The Flescher Slides Collection  
The Biological Bulletin Citations Database  
MRC Catalog of Specimens  
Compendium of Eggs and Embryoes  
The Teaching Charts of Rudolph Leucka?


Woods Hole Oceanographic Institution

Discovery: The Salt Marsh  
Mariner Library Catalog  
Oceanus Magazine: Oct 1983 Issue  
JASON Project, 1997 Fisheries Worldw?  
Laboratory of Dr. Peter Cummins

FIG. 33





 **ASTROBIOLOGY** **microscope** sites Browse Alphabetical

Find  Find

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z |

## Mallomonas

Marineamoeba

Markshotair

Massistena

Mastigamoeba

Mastigella

Mavorella

Melosira

Merismopedia

Mesodinium

Metacoronynmpha

Metanema

Metromonas

Micrasterias

Micrachiamys

Microcometes

Microhabitat

Microscope

Mite

Mite

Monas

MONOCERCOMONADINAE

Mothscale

Motilebact

Motilebactdet

found 4 images matching Massisteria

34/41



SUMMARY OF RESULTS 347

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FISHES (Günther, Zool. pt. 47).

*Ipnapis murrangi*

n.g., n.s.p. Two specimens; obtained also at Stations 124 and 198. Only species of the genus.

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**Ipnapis murrayi**

**Ipnapis pristibrachium**  
**Ipnapis agassizii**  
**Ipnoceps pristibrachium**

Split in 1927 into  
**Ipnapis murrayi**  
**Ipnapis pristibrachium**

FIG. 35

# dTNS (distributed Taxonomic Name Server)

Documentation

Jump to: [Vertebrates/Fish](#)  
[Mammals/Birds/Reptiles](#)

Server  
 Numbers Name

Find

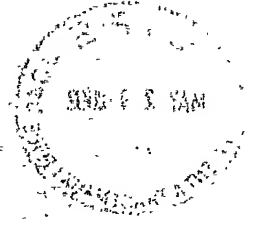
.... [Organisms](#) (C1)  
 ..... [Eukaryote](#) (P1)  
 .....2 [Opisthokonts](#) (P2673)  
 .....3 [Choanoflagellates And Animals](#) (P2674)  
 ..... [Metazoa](#) (D1)  
 ..... [Chordata](#) (D1537)  
 ..... [Vertebrata](#) (D1543)  
 ..... [Gnathostomata](#) (D1547)  
 ..... [Osteichthyes](#) (D1555)  
 .....Class [Actinopterygii](#) (F192005)  
 .....Order [Perciformes](#) (F180037)  
 .....Family [Pomatomidae](#) (F175393)  
 .....Genus [Pomatomus](#) (F103337)  
 .....Binomen [Pomatomus saltator](#) [Entrez](#) (F364) 0

Names:

[Bluefish](#) (E)  
[Pomatomus saltator](#) (L)  
[Cheilodipterus heptacanthus](#) (Syn)

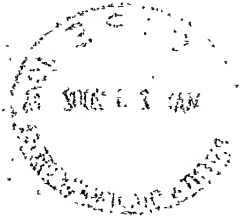
FIG. 36A

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Cheilodipterus saltatrix (Syn)  
 Chromis epicurorum (Syn)  
 Gasterosteus saltatrix (Syn)  
 Gonenion serra (Syn)  
 Lopharis mediterraneus (Syn)  
 Perca lophar (Syn)  
 Pomatomus pedica (Syn)  
 Pomatomus saltatrix (Syn)  
 Pomatomus skib (Syn)  
 Scomer sypterus (Syn)  
 Sparactodon nainal (Syn)  
 Sypterus pallasii (Syn)  
 Temnodon conidens (Syn)  
 Temnodon saltator (Syn)  
 Temnodon tubulus (Syn)  
 Chopper (E)  
 Tailor (E)  
 Snapper Blue (E)  
 Tassergal (FR)  
 Anjova (Sp)  
 Sinikala (Fi)  
 Blaufisch (Gr)  
 Gofári (Gk)  
 Pesce serra (It)  
 Amikiri (Jp)  
 Anchova (Pr)

FIG. 36B



Plitica (SC)  
Strijelka skakusa (Serb)  
Lüfer (Tk)  
Blue-fish (E)  
Anchova (Pr)  
Shad (E)  
Elf (E)  
Tekwaya (Ar)  
Tekwa (Ar)  
Tasergal (Po)  
Teleskopabborre (Sw)  
Dyphavsabbor (No)  
Enchova (Pr)  
Skipjack (E)  
Anchova de banco (Sp)  
Elwe (Af)

Data Views: Level: SQL outputs: parent/child & columns : Pending

explode Delimiter:

FIG. 36C



Various output formats served by the Name Server layer via a Taxonomic Name Server		
		Family##Pomatomidae Genus##Pomatomus Species##saltator
Gasterosteus saltatrix (Syn)	Species saltator	
Gonenion serra (Syn)	or the same table with common English names	
Lopharis mediterraneus (Syn)	tns -c,ce,l "Kingdom,Phylum,Class,Order,Family,Genus,Species" -name "Pomatomus saltatrix" -t:	
Perca lophar (Syn)	Kingdom: EUKARYOTES	
Pomatomus pedica (Syn)	Phylum: Animals with Backbones	
Pomatomus saltatrix (Syn)	Class: Ray-finned Fish	
Pomatomus skib (Syn)	Order: Perches and Allies	
Scomer sypterus (Syn)	Family: Bluefish Family	
Sparactodon nainal (Syn)	Genus: Bluefish	
Sypterus pallasii (Syn)	Species: Bluefish	



Various output formats served by the Name Server layer via a Taxonomic Name Server			
Temnodon conidens	(Syn)		
Temnodon saltator	(Syn)		
Temnodon tubulus	(Syn)		
Chopper	(E)		
Tailor	(E)		
Snapper Blue	(E)		

FIG. 37C



ENTITYID NAME URL  
 AR1001 POMATOMUS SALTATRIX HTTP://ZEUS.MBL.EDU/AD.PL?  
 ZT7801 STENOBOMUYS CHRYSOPS HTTP://WWW.MBL.EDU/ANIMA  
 .....  
 .....  
 .....

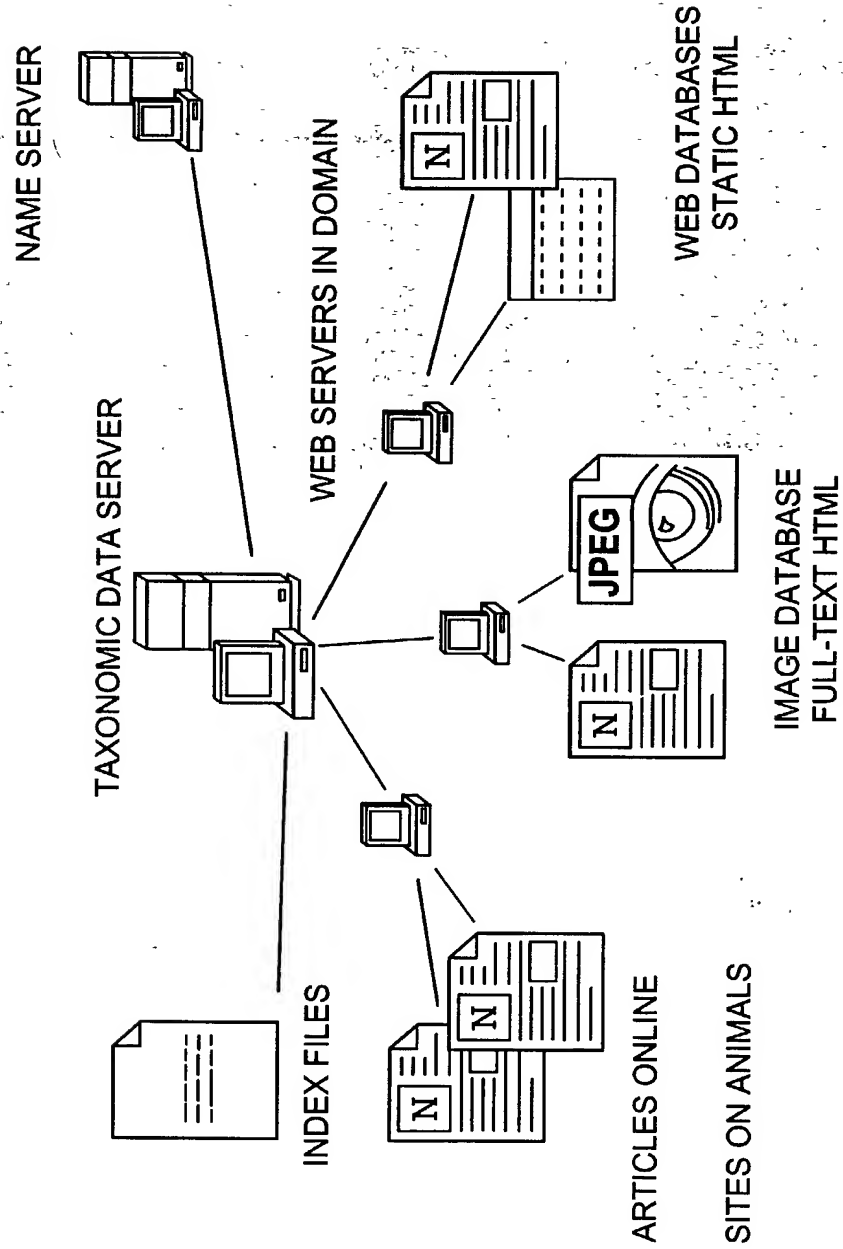


FIG. 38

# **RAM** Fee History Query

Revenue Accounting and Management

Name/Number: 10087621

Total Records Found: 3

Start Date: Any Date

End Date: Any Date

Accounting Date	Sequence Num.	Tran Type	Fee Code	Fee Amount	Mailroom Date	Payment Method
04/18/2002	00000097	<u>1</u>	<u>632</u>	\$130.00	04/18/2002	DA 080219
06/03/2002	00000043	<u>1</u>	<u>205</u>	\$65.00	05/29/2002	DA 080219
06/05/2002	00000153	<u>1</u>	<u>581</u>	\$40.00	05/29/2002	DA 080219

101 =

103 = 19 -

102 = 120